

Low Capacity Single Point Aluminum Load Cells



FEATURES

- Capacities 5-100kg
- Aluminum construction
- Single point 400 x 400mm platform
- OIML R60 and NTEP approved
- IP65 protection
- Available with metric and UNC threads

OPTIONAL FEATURES

- EEx ia IIC T4 - hazardous area approval
- FM approval available
- IP67 available

DESCRIPTION

Models 1040 and 1041 are low profile single point load cells designed for direct mounting of low cost weighing platforms.

Their small physical size, combined with high accuracy and low cost, makes these load cells ideally suited for retail, bench and counting scales.

Available in anodized aluminum these high accuracy load cells are approved to NTEP and other stringent approval standards, including OIML R60. For hazardous environments this load cell has EEx ia IIC

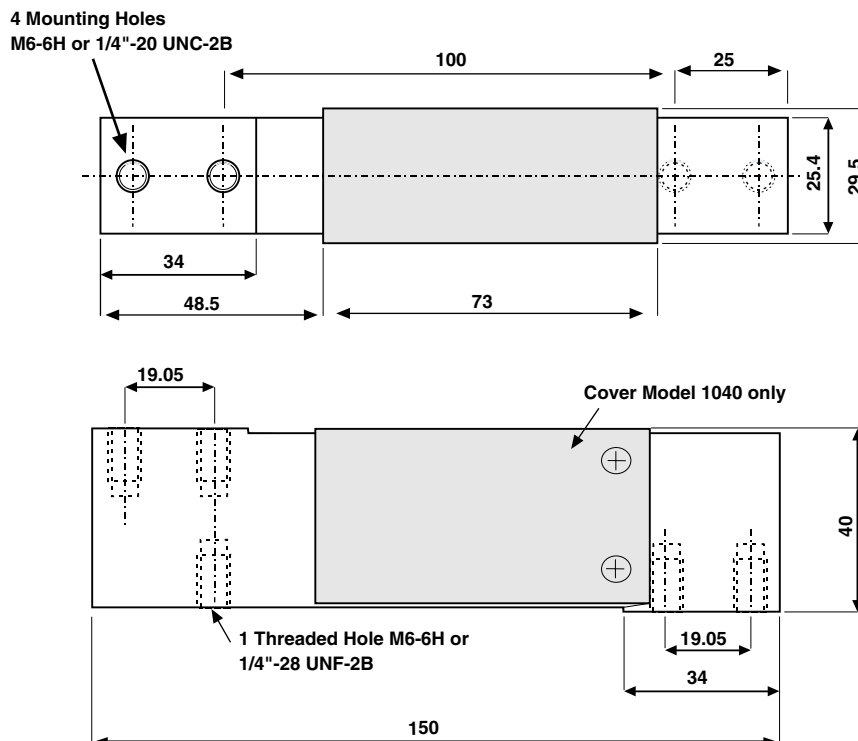
T4 level of approved option. An optional special humidity resistant protective coating assures long term stability over the entire compensated temperature range.

The two additional sense wires feed back the voltage reaching the load cell. Complete compensation of changes in lead resistance due to temperature change and/or cable extension, is achieved by feeding this voltage into the appropriate electronics.

APPLICATIONS

- Bench scales
- Counting scales
- Grocery scales

OUTLINE DIMENSIONS in mm

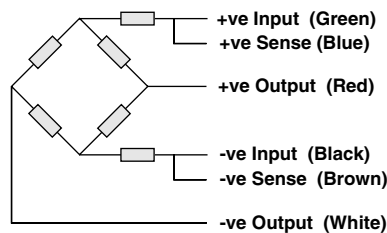


SPECIFICATIONS

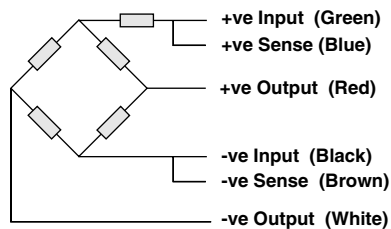
| PARAMETER | VALUE | | | UNITS |
|-----------------------------------|---|--------------|--------|-------------------------|
| | NTEP | Non Approved | C3* | |
| NTEP/OIML Accuracy class | | | | |
| Maximum no. of intervals (n) | 5000 single | 1000 | 3000 | |
| Rated capacity-R.C. (E_{max}) | 5, 7, 10, 15, 20, 30, 50, 75, 100 | | | kg |
| Rated output-R.O. | 2.0 | | | mV/V |
| Rated output tolerance | 0.2 | | | ±mV/V |
| Zero balance | 0.2 | | | ±mV/V |
| Zero Return, 30 min. | 0.0330 | 0.0300 | 0.0170 | ±% of applied load |
| Total Error | 0.0200 | 0.0500 | 0.0200 | ±% of rated output |
| Temperature effect on zero | 0.0023 | 0.0100 | 0.0023 | ±% of rated output/°C |
| $Y = E_{max}/V_{min}$ | 6000 | 1400 | 6000 | Maximum available 10000 |
| Temperature effect on output | 0.0010 | 0.0030 | 0.0010 | ±% of applied load/°C |
| Eccentric loading error | 0.0049 | 0.0074 | 0.0049 | ±% of rated load/cm |
| Temp. range, compensated | -10 to +40 | | | °C |
| Temp. range, safe | -20 to +70 | | | °C |
| Maximum safe central overload | 150 | | | % of R.C. |
| Ultimate central overload | 300 | | | % of R.C. |
| Excitation, recommended | 10 | | | Vdc or Vac rms |
| Excitation, maximum | 15 | | | Vdc or Vac rms |
| Input impedance | 415±15 | | | Ohms |
| Output impedance | 350±3 | | | Ohms |
| Insulation resistance | >2000 | | | Mega-Ohms |
| Cable length | 1.0 | | | m |
| Cable type | 6wire, PVC, single floating screen | | | Standard |
| Construction | Plated (Anodized) aluminum 1040 Aluminum - 1041 | | | |
| Environmental protection | IP65 | | | |
| Platform size (max) | 400 x 400 | | | mm |
| Recommended torque | Up to 30kg: 7.0 50kg & up: 10.0 | | | N*m |

* 50% utilization. Other utilization factors available upon request.

Wiring Schematic Diagram
(1040 balanced bridge configuration)



Wiring Schematic Diagram
(1041 unbalanced bridge configuration)





Disclaimer

All product specifications and data are subject to change without notice.

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